

S	inc	clair	
IF	-1	8 1 2 3 4 5 6 7 8 9 0 - = £ \	
IF	-2	ALT Q W E R T Y U I O P []	
F	-3	CAPS A S D F G H J K L ; " ENT	
F	-4	SHIFT Z X C V B N M , . / SHIFT	QL
F	5	CTRL + + + + ALT	
1			

```
100 REMark +----
 110 REMark +
                  QL draw routine
 120 REMark +
                   APR 18, 1988
 130 REMark +
                  by Bob Schubel
 135 REMark +
                   CIS 71320, 262
 140 REMark +----
 150 :
 160 DATA '-', '=', CHR$ (96), CHR$ (92)
 170 DATA 'Q', 'W', 'E', 'R', 'T', 'Y', 'U', 'I', 'O', 'P', CHR$(91), CHR$(93)
180 DATA 'A', 'S', 'D', 'F', 'G', 'H', 'J', 'K', 'L', '; ', '"'
 190 DATA 'Z', 'X', 'C', 'V', 'B', 'N', 'M', ', ', ', '.'
 200:
 210 WINDOW 512, 256, 0, 0: PAPER 2: CLS
 220 CSIZE 3, 1: STRIP 0: INK 7, 2
230 AT 3,4: PRINT' The Sinclair ';:ql: PRINT'
 240 OVER 1: UNDER 1: INK 4
 250 AT 3,5: PRINT FILL$ (' ',15)
260 PAPER O: INK 7: OVER O: UNDER O
270 SCALE 400,0,0: INK 7: CSIZE 0,0
280 REMark draw ql at 0,240
290 outline 0,240
300 AT 11,4: PRINT' Sinclair'
310 AT 16,74: PRINT'QL'
320 CURSOR 26, 123: PRINT' F1'
330 CURSOR 56,123: PRINT CHR$ (127)
340 CURSOR 26, 135: PRINT' F2'
350 CURSOR 57, 135: PRINT' ALT'
360 CURSOR 26, 147: PRINT'F3'
370 CURSOR 53, 147: PRINT' CAPS'
380 CURSOR 304, 147: PRINT' ENT'
390 CURSOR 26, 160: PRINT' F4'
400 CURSOR 56, 160: PRINT' SHIFT'
410 CURSOR 293, 160: PRINT' SHIFT'
420 CURSOR 26, 172: PRINT' F5'
430 CURSOR 53, 172: PRINT' CTRL'
440 CURSOR 302, 172: PRINT' ALT'
450 b=75:C=123
460 FOR I=1 TO 9,0
470 CURSOR b, C: PRINT I
480 b=b+19.2
490 END FOR I
500 b=269: RESTORE
510 FOR I=1 TO 4
520 CURSOR b, C: READ AS: PRINT AS
530 b=b+19.4
540 END FOR I
550 b=84:C=135
560 FOR I=1 TO 12
570 READ AS: CURSOR b, C
580 PRINT AS
590 b=b+19.4
600 END FOR I
610 b=90:C=147
620 FOR I=1 TO 11
```

1130 DEFine PROCedure outline(x_pix,y_pix)

1160 LINE R TO 465,0 TO 0,-11 TO 10,0 TO 0,-114 TO -10,0 TO 0,-11

1140 INK 0: FILL 1 1150 POINT x_pix, y_pix

```
630 CURSOR b, C: READ AS: PRINT AS
640 b=b+19.4
650 END FOR I
660 b=98:C=160
670 FOR I=1 TO 10
680 CURSOR b, C: READ AS: PRINT AS
690 b=b+19.4
700 END FOR I
710 CURSOR 89, 171: PRINT CHR$ (188)
720 CURSOR 108.6, 171: PRINT CHR$ (189)
730 CURSOR 264, 172: PRINT CHR$ (190)
740 CURSOR 282, 172: PRINT CHR$ (191)
750 PAUSE 60
760 draw_ql at 0,240
770 BLOCK 2, 4, 21, 184, 244
780 BLOCK 2, 4, 355, 184, 2
790 BLOCK 2,4,420,184,2
800 SCALE 100, 0, 0: STOP
810 :
820 DEFine PROCedure draw ql at(x pix, y pix)
830 LOCal h_lines, KEYSs
840 FOR h lines=0 TO 6
850 LINE R TO 475,0
860 IF h lines<6: POINT R -475, -19
870 END FOR h lines
880 LINE R TO -22,0 TO 0,114 TO 22,0 TO 0,-114 TO -453,0
890 LINE R TO 0,95 TO 20,0 TO 0,-95
900 LINE R TO 6,0 TO 0,95 TO 19,0 TO 0,-19 TO 9.5,0 TO 0,-19 TO 5,0
910 LINE R TO 0,-19 TO 9.5,0 TO 0,-19 TO -9.5,0 TO 0,-19 TO 19,0 TO 0,19
920 LINE R TO 19,0 TO 0,-19 TO 133,0 TO 0,19 TO 19,0 TO 0,-19 TO 19,0
930 LINE R TO 0,19 TO -9.5,0 TO 0,19 TO 9.5,0 TO 0,19 TO 14,0 TO 0,19 TO 19,0
940 LINE R TO 0,-19 TO -18,0:INK 0:LINE R TO 18,0:INK 7:LINE R TO 0,-57
950 LINE R TO 15,0 TO 0,-11 TO 0,125 TO 0,-19 TO -5.5,0
960 FOR KEYSs=1 TO 7
970 LINE R TO 0,-19 TO -19,0 TO 0,19 TO -19,0
980 END FOR KEYSS
990 LINE R TO 0,-19 TO 9.5,0
1000 FOR KEYSs=1 TO 6
1010 LINE R TO 19,0 TO 0,-19 TO 19,0 TO 0,19
1020 END FOR KEYSS
1030 LINE R TO 0,-19 TO -14,0
1040 FOR KEYSs=1 TO 5
1050 LINE R TO -19,0 TO 0,-19 TO -19,0 TO 0,19
1060 END FOR KEYSS
1070 LINE R TO 0,-19 TO 9.5,0
1080 FOR KEYSs=1 TO 5
1090 LINE R TO 0,-19 TO 19,0 TO 0,19 TO 19,0
1100 END FOR KEYSS
1110 END DEFine draw_ql_at
1120 :
```

1170 LINE_R TO -465,0 TO 0,136 TO 0,-11
1180 INK 7:FILL 0
1190 POINT x_pix,y_pix
1200 LINE_R TO 465,0 TO 0,-11 TO 10,0 TO 0,-114 TO -10,0 TO 0,-11
1210 LINE_R TO -465,0 TO 0,136 TO 0,-11
1220 END DEFine
1230 DEFine PROCedure ql
1240 INK 7,4:PRINT 'QL'::INK 4
1250 END DEFine ql
1250 END DEFine ql

1988 Aug 04 15:27:56
ram1_ts88720a_lis
880721.1813;; 251_WORDS;;
(T)imeLinez/SincLink;;
(S)hareware_File;; FILENAME::ts88720a;;

TS2068 Joystick Quad Drwg. Pgm. (c)1988 by Mark Wahl @ LogOn/SV_BBS(408)745-0880. May be freely copied for non-commercial use. For commercial use, contact author... This program was created in response to Gertie Andersson's 880620 request for information on the use of the TS2068 Joysticks. It demonstrates the use of the STICK command on the TS2068 by dividing the screen into 4 quadrants and drawing in all four quadrants at the same time. Push the FIRE button to erase..

100 REM 880720.1537;; STICK

command demonstration .. 110 LET x=10: LET y=10 120 PLOT X,Y 130 LET z= STICK (1,1) 140 LET w= STICK (2,1) 150 IF (z=5 OR z=9 OR z=1) AND y<175 THEN LET y=y+1 160 IF (z=8 DR z=9 DR z=10) AN D x<255 THEN LET x=x+1 170 IF (z=6 DR z=2 DR z=10) AN D y>1 THEN LET y=y-1 180 IF (z=6 OR z=4 OR z=5) AND x>1 THEN LET x=x-1 181 IF w=1 THEN INVERSE 1 182 IF w=O THEN INVERSE O 190 PLOT x,y 195 PLOT 256-x, 176-y 196 PLOT x,176-y

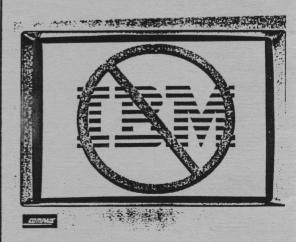
197 PLOT 256-x,y 200 GO TO 130 The Syntax of the STICK command is:

pos=STICK(dev,player)

Dev is either 1 for the joystick itself, or 2 for the button.

Player is 1 for the left and 2 for the right joystick port.

Pos is either O(down) or 1(up) for the fire button, or for the joystick:



ZXFFPPEU

PLAYING WITH ELECTRICITY

- Mar 26/88
- Harvey Taylor

What the hell is a modaptor anyway?

One of my greatest disappointments with the QL when I originally got it was the serial ports. When I discovered I couldn't just hang a garden variety modem off the serial ports, I was po'ed to say the least. I have written in the past about the reasons for these problems, however in brief the serial input for both ports is multiplexed onto one serial input on the 8749 IPC fintelligient Peripheral Controller] which has to watch the keyboard & make noise & keep time as well. Consequently the serial port has a tendency to drop characters now & then.

Another consequence of this arrangement is that the programmer does not have direct access to the device which controls the serial parameters. ie Data bits [5-8], Stop Bits [1-2], & Parity [none, even, odd, mark, space]. You can ask QDOS to ask the 8749 to change the Parity & Baudrate, however the internal ROH of the 8749 is forever (?) hidden from the programmer. If you're driving a printer, this doesn't much matter. However if you want to get input from a modem in North America, problems arise. One problem is that just about every BBS in the world expects you to use 1 Stop Bit. The QL expects you to use 2 Stop Bits. The Modaptor is a hardware device that gives you two stop bits. It also serves the function of generating a 75 Baud output signal from a 1200 baud output signal. I have not looked at this function because it is only used in the UK with Prestel & those systems which expect the 1200 baud receive/75 baud send protocol.

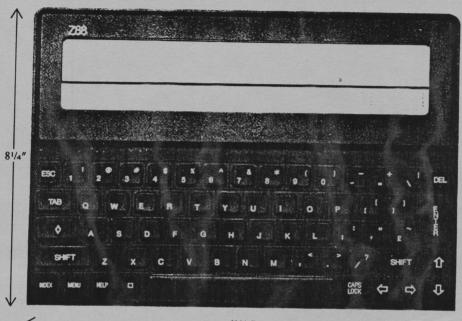
I have heard of people getting modaptors with the part numbers defaced so that reverse engineering is impossible. For some reason mine came readable. This is the circuit.

These are the other connections between the QL & the modem

QL	CSER?	CONNECTIONS	MODE	M CDB-253
2 - 3 -	- GND - TxD		7 -	GND
7 -	- +12v	to QL Pin 1	4 -	CTS

Note that the QL User Guide in Concepts [Communications RS-232C Page 13] refers to the British Telephone connectors used in Europe, not the DB9 connectors used in NorthAm. The DB9 pins 6,7,8 are tied to frame ground.

THIS COMPACT.





111/2"-

THIS POWERFUL...

- The most portable full-function computer ever devised.
- Less than an inch thick, measures 11 1/2 in × 8 1/4 in.
 Weighs under 2 lb.
- Comes complete with integrated set of powerful applications software: word-processing, spreadsheet, database, calculator, diary, calendar, clock, alarm, printer editor all included in ROM.
- Can export, import and manipulate data from IBMcompatible PCs; converts its own applications software into Wordstar or Lotus 1-2-3 files.



- Extra memory comes in solid-state, interchangeable packs
 —only 2¹/₅ in square × ³/₈ in deep. No fragile disks, no
 bulky disk drives.
- 32K of RAM built in, expandable to over 1.5 megabytes now, and 3 megabytes soon—enough to hold the complete works of Shakespeare.
- Permanent storage on EPROM (Erasable Programmable Read Only Memory) packs, available in 32K, 128K and 512K. 1 megabyte packs coming soon.
- Latest supertwist liquid crystal display provides large working area of 8 lines × 80 characters.
- RS232 port provides connection to virtually any standard printer.
- QWERTY keyboard has silent, short-travel keys; use in meetings, lectures, anywhere.
- Runs on four AA batteries. Built-in capacitor preserves data when batteries need to be changed.

THIS CAPABLE!



Z88 Technical Specification

Design Four-chip design-CPU, ROM, RAM, gate array.

CPU Z80 (CMOS).

ROM 128K containing operating system and applications software together with BASIC/Assembler.

RAM 32K expandable via 32K, 128K, 512K and 1 megabyte to a maximum 3 megabytes, battery-backed from the computer.

EPROM Up to 3 megabytes removable storage capacity via 32K, 128K, 512K and 1 megabyte packs.

Applications software Pipedream word-processing and spreadsheet applications.

Database. Calculator, diary, calendar, clock, alarms, printer editor, come as 'pop-down' screens.

Operating system OZ operating software, allows task-switching between applications without loading or exiting.

Language/Assembler Powerful BASIC.

Display 8×106 characters 'supertwist' LCD. Includes 8×80 working area, page map (shows where you are on a complete page), battery strength, alarm status.

Power 4 AA batteries provide 20 hours active computing or one year on standby.

Ports Three for memory-pack expansion, RS232 for popular printers and data import/export.

CAMBRIDGE

Z88

Z88 Accessories

RAM Packs Require no external power, and are available with 32K, 128K, and 512K capacity. 1 megabyte RAM packs available soon.

EPROM Packs Solid-state permanent storage, available in 32K, 128K and 512K. 1 megabyte EPROM packs available soon.

EPROM Eraser Z88 EPROM Eraser, completely deletes EPROM data—leaves you with a blank EPROM pack, ready for re-use.

PCLINK Consisting of software diskette and RS232 serial cable, allows transfer and receipt of ASCII files between the Z88, and an IBM or compatible PC. Also converts Z88 Pipedream files into either Wordstar or Lotus 1-2-3 files.

Links for other PCs available shortly.

Serial Printer Cable connects the Z88 to any printer with a standard serial port.

Parallel Printer Cable connects the Z88 to any printer with a standard parallel port.

AHERICAN HICRO CONNECTION
2175 ABORN ROAD
SUITE 262
SAN JOSE, CA 95121

[488] 279-9738

IBM TM of International Business Machines. Wordstar TM of MicroPro International Corporation.

Lotus and 1-2-3 TM of Lotus Development Corporation

```
880726.1740;; 183_words;; (T)IMELINEZ/SincLink;; (S)hareware File;; Filename:: ts88726a (rscable);;
```

QL to PC Clone Cable & Software by Mark Wahl & Terry Greenlee..

RS232 Cable Design

QL					PC Clone
1	Casas	1 GND	GND	Green	1
1	Green	1 TxD	TxD ₁	Green	1
2	Red			Red	2
3	Blue	1 RxD	RxD ₁	Blue	3
3	Bide	DTR	CTS	blue	3
4	Yellow			Yellow	4
5	Orange	1CTS	RTS ₁	Orange	5
6	N.C.	1 GND		Purple	6
7	Black	1945		Black	7
			1		
8	N.C.		+	White	8
9	N.C.			N.C.	9-19
			1 DTR	D	20
				- Brown	20
				N.C.	21-25

Brown(20), White(8) and Purple(8) are tied together. The rest of the connections are pin to pin.

Connect to SER1 at QL, and to COM1 at IBM. At the QL, enter and run this program:

10 BAUD 1200

20 OPEN #4:ser1r

30 PRINT INKEY\$(#4);

40 PRINT #4: INKEYS:

50 GOTO 30

After the program is running, type on the IBM:

MODE COM1: 1200,n,8,1,p CTTY COM1

If a A>,B>,C> or something similar appears on the QL screen, the cable works.

Try typing DIR and Control-M on the QL to get a Directory of the IBM disk drive.

To return control of the IBM, type

CTTY CON

>From squid!david Mon Jun 6 22:33 CDT 1988 remote from occrsh Date: Mon, 6 Jun 88 22:33:14 CDT Message-Id: (8815722CF2@squid.UUCP) Subject: nukes

NEW Add-Ons for the IBM

Single board Nuclear Reactor supplies stand-by power for 12 years! Now available on a full-length plug-in card for the IBM, or compatible, the QBX-1 nuclear reactor card provides back-up power for up to 12 years. When the card senses a power failure, explosive charges (bolts) eject moderator and control rods from the reactor interior, within 20mmsecs, bringing the reactor to it's fully rated output of 20Km, in less than one (1) millisecond! Over it's 12 year active life, the reactor's power decreases by 25%, to 15Km. Integral heat fans provide convection cooling of the reactor's 500W power dissapation while the reactor remains in "stand-by" position. If your computer cannot furnish the 400ft per second of forced air for cooling, consider buying the manufacturer's heavy-water cooling jacket and stainless steel pump module, which fits conveniently under a desk, or workbench. Latches on each side of the reactor module let you quickly swap the radioactive core, should you need to replace it. An optional circular viewing port of lead glass lets you view the reactor's internal assemblies, & also functions as a ten (10) million candlepower nightlight.

To protect users from undue radiation, each card contains a shielding kit, comprised of five (5) self-adhesive lead plates, and 20 radiation-monitoring film badges. The lead plates mount to the inside of your computer enclosure, insuring the reduction of harmful gamma rays, which cause soft errors to floppy disks and RAM data. For more protection, consider the manufacturer's 200' extension cords for monitors and keyboards.

Because the card can supply more than enough power for the standard computing station, you can sell the excess power to your utility company, as provided by law. An add-on phasing and metering kit (PMK-1) lets you connect your reactor to the local power grid. Each PMK-1 kit includes standard power sale contracts and Rural Electrification Board rules & regulations.

Although not required everywhere, each reactor includes a standard 23-volume site evacuation plan. The plan includes forms, to allow you to register the name and address of your reactor site with the Nuclear Regulatory Commission. As an option, the seller supplies the plan on MS-DOS compatible diskettes, in Wordstar format. User-friendly templates let you type in the data allowing your word processor to create a complete, printed document.

Reactor prices start at twelve (12) million dollars (US). Please allow six (6) years for delivery. (Prices do NOT reflect union considerations, or include cost over-runs.)

Please mail your cashier's check, or money order, with payment in full, to: Nukes R Us, P.O. Box U-235, White Sands, NM 43210

(shamelessly stolen from the TECH echo)

--- Sirius 0.50 ‡ Origin: Best of both worlds: ihnp4!occrsh!squid!david aka (1:19/1) SUBSCRIPTION DUES DUE!!

The folks listed on this page dues expire(d) during the month indicated. This is your last issue! Please pay your dues! Make check for \$15 Annual Subscription payable to 'Same' and mail to:

TIMELINEZ/ Sinclink

c/o

SEE BACK 4530

Dues

NAME ::

Expr Date

TSEBZUG (1)::

Darwin Thompson

8807

TSPUG (9)::

Frank Binch 8808 8808 Capt. Charles Byler 8808 Rooer Genhardt Dennis Krill 8908 8808 Rob Orrfelt Stuart Ree 8808 Howard Sheppard 8808 Loren Latker 8807 Bill Strick 8807

GUTS/SV (7)::

Mel Richardson	8808
Dave Means	8808
Jim Wheeler	8808
Troy Cook	8808
Courtney Cain	8807
Keith Felix	8807
Maynard Unruh	8807

1988 Aug 09 12:57:02 flp1 ts8808 lis 880809.1251; 1026 WORDS;; (T)IMELINEZ/ (S)inclink;; Filename: ts8808 (ts8806);; Descriptions:: (2)

PAGE 359:: TIMELINEZ/ SincLink:: VOLUME 6:; Numbers:: 7, 8:; Jul, Aug, 1988. PAGES (20?):: 359, 360, 361, 362, 363, 364, 365, 366, 367, 368, 369, 370, 371, 372, 373, 374, 375, 376, 377, 378...

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(408)244-6707..

We are working on TS2068.

Spectrum and TS1000 disk
systems. We are also working on
other popular disk systems (PC
Clone, C64/128). If you are
interested in these, contact;:
TIMELINEZ/ Sinclink..
c/o Rill Miller, (408)253-3175..
6675 Clifford Drive..
Cupertino, CA 95014-4530..

1988 Aug 06 16:02:23 ram1 ddr tmp flp1_ts88803b 126 126/1440 sector Files::72

boot 32567 880804.131343 100 REMark ESF Concepts Menu for the QL. (c) 1988 by Bill Mill er & Mark Wahl. May be freely copied for non-commercial use. For commercial use contact (4 08) 253-3175. 880804.1311..

ts88 doc 171561 880803.160942 TIMECINEZ/ Sinclink 88 (170604? RYTES):: Contents (15 Files):: Page O:: Filename ext RYTES Y YMMDD. HHMM YYMMDD. HHMM:: Descr iption ..

ts88530a_doc 8408 880803.150949 1 880630/Letter from Jim Hoff..

ts88630b doc 9884 880803.160959 Peoples Data Base Documentation, glorypt2 bas 3213 880803.161151 scrdump bas 1056

ts88630c bas 15691 880803.161010 glcrypt_doc 6144 :100 REMark Peoples Data Base. vrmlqdf0mf&Xpage nnn (c) P.D.B. . Use with::

ts88630a doc (was 'letter doc'),ts88630b (was 'sample'?) ts88630d (was 'pdb doc ts88630e (was 'sampl e num'?)..

ts88630d 1111 880803.161014 drwebzug bas 746 THIS IS FILE #111 SUB #1 TV25THI

ts88630e 66 880803.161016 7525201013000000000000000000000000

s#88520a doc 8230 880803.161022 maze bas 9467 SLIX Mailing 880520:1100 (1)::TI MELINEZ 8712; Sinclink 8701-2 sc8805,880520:1021;; TD:: T Woods ...

: Larry Anderson;; David Fyffe ; Todd Crenshaw;; Ron Townsen d;; Robert Warner;; Mike Franz ;; Andrew Woodman ... #10

udgs_doc 2048 880803.161039 vrmlqdf0&Xpage nnn-- QL USER DEF snoopycal txt 6912 880803.161239 turtle dor 4096 880803.161043

vrmlqdf0f&Xpage nnn hash_doc 2048 880803.161047

cookies doc 2634 880803,161051

vrmlqdf06&Xpage nnn-- Cookies by

sysvar doc 4096 880803.161057 vralgdf0Ef&Xpage nnn-- QL SYSTEM

crypt doc 4096 880803.161102 GH vrmlqdf0f&Xpage nnn-- File Encry

guide doc 40% 880803.161110 vrelqdf0 F&Xpage nnn

threed bas 2539 Three Dimensional Graphics Demo . By Mark Wahl? & Logon/SV BBS (408)745-0880. 880722.1337, 8 (408)745 80708.1411..

composer bas 23180 880803.161131 calendar bas 6546 880803.161319

#20 fala tun 393 01114151922191522191514191519222 ep 71 by CC Wilton-Davies dated \$21

880803.161141 gwhist bas 19840 calc bas 5502

\$22 calc doc 4096 880803.161146 walpap bas 335 vrmlqdf0?&Xpage nnn

\$24

880803.161157 glbert bas 7273

880803.161202 darts bas 7279 lister bas 2071 ## LISTER by Timothy Swenson110

880803.161206 lister doc 2048 vralodf0&Xpace non PROGRAM LI 880803.161210

Draw map to TSEBZUG Meeting. 88 0722.1157;; QL 'Draw' File by Mark Wahl & LogOn/SV_BBS (408) -745-0880..

880803.161217 ***** MULTI-MAZE ******12 R

#29 olpic bas 3499 880803.161223 880715;; QLPIC bas ..

#30 sm88520b doc 16472 880803.161035 sa88419a doc 4096 880803.161228 SLIX Mailing 880520:1159:48 (7): HOW TO MAKE YOUR TIMEX SINCLAIR : TIMELINEZ 8712;; SincLink 88 COMPUTER COMPATIBLE MITH: AMI 01-2;; sc8804,880506:1717. TO: 6A, APPLE II, ATARI, COMPODER GA, APPLE II, ATARI, COMMODORE, CP/M, IBM, MACINTOSH, & MOR

> bt88505a 1734 880803.161233 100 REMark 880505:1739;; Omar Fi #32

-- TURTLE swtoql dor 2048 BB0803.161244 clock exe 15382 BB0803.16144 vrmlqdf0&Xpage nnn3300 CLEAR #:0 "JC-PR06AC" Q "X "#6PA"H(H0\$T0"

vrm1qdf0&Xpage nnn-- HASH TABLE: KeyCaps bas 3107 880715;; KeyCaps;; by Mark Wahl

> #36 880803.161302 saturn rle 4224

rledecod bas 818 880803.161306

#38 -- TIM riedecod doc 4269 880803.161312 vreladfobkkpage nnn======== .45;; Sinclair QLRLE Decoder b ion:: Instructionfor RLEDECOD.

880803.161334 880803.161135 eorse bas 18214

880803, 161351

R80R03.161354

880803.161359

880803.161406 1111 PLbert 1111120 REMark (c)

880803.161414 December program of the month f row QL World..20 REMark Modifi ed to work on JSU Rom. . 30 REMa rk by Joe Morris, CIS ID# 7365 7,1036100 PAPER 0 : CLS110 REM ark 1290 end def120 DIM name\$1 4.18)130 name\$(1)='Kenton Juds 00 ...

880803.161419 crater bas 629 980715;; Crater;; for QL;; FROM :: Time Designs 8???..

henon bas 342 880803.161423 880117; Henon mapping program;; Mark Wahl; FROM: Scientific American 8???..

\$48 cube base 2077 880803.161427 100 REMark 880715;; Cube bas;; T im Swenson..

banner bas 2351 880803,161431 880715;; Banner bas;; FROM:: Ti . Swenson..

puzzle bas 1937

880803.161449 #52

880803.161249 bouncinglines bas 611 880803.161 880715; ; bouncing lines; : BY:: An 880/13,,-dy Hradesky...

tymnet doc 2048 B80803.161106 B80715;; Riedecod bass; Rie Dec games starbst ldr 79 B80803.1615 vrm1qdf0f&Xpage nnn -- TYMNET IN oder;; written by Norm Lehfeld 100 REMark 880715;; Games starbs

t bin ..

#56 games starbst bin 5034 880803.16 KDA "NIRK FAZ N86<2<4<pav PNC8xA \$57

games grap bin 656 880803.161520 UəUəUəUəuəə (" ((((

games sprode bin 1792 880803.161 \$59

games_quiz_text 7408 880803.1615 Classical Music Quizl. Disregard

games_bach_ldr 215 880803.161538 100 REMark This program plays th #61

games bach bin 512 880803.161542 AntiaNu6(6fa&'(gpNAr:893ja'6pNAN \$62

games_trivia bas 1787 880803.161 ** ALL PURPOSE QUIZ GAME **120 #63

Draw map to Cupertino Library. B80722.1139, 880505.1413; 9L 'Draw File by Mark Wahl & Log Dn/SV_BBS_(408)745-0880..

gldmldr bas 4612 880803.161559 OL Demo Loader Program. Use wit h:: qldmpgm bas, qldmdata_scr, qldmlogo bin, qldmpan bin. Mo dified by Bill Miller; 880722 .1514 ...

qldmpgm_bas 48248 880803.161634 QL Demonstration Program. Use w ith qldmldr bas, qldmdata scr. qldmlogo bin, qldmpan bin. Mo dified by Bill Miller;; (408)2 53-3175;; 880722.1522.. #66

qldmlogo bin 400 880803.161705 C4xNL06014xNJf886Btv~*ApNAJf\$C\$\$

oldepan bin 900 880803.161710 CAXNNUPAN LPAN ROOXNJEVJER \$69

ts87c24a doc 6144 880803.161718 Tim Swenson's TS Inventory.. \$70

BB0803.161436 tsB8726a doc 2247 BB0804.155823 B80715;; Puzzle;; by Mark Wahl. 9L to PC Clone Cable & Software by Mark Wahl & Terry Greenlee.

lotto5 bas 3679 880804.152205 880804.145825; Lotto5_bas; co nverted by Mark Wahl from a pr ogram for the TS2068 by George Mockridge.

qthello bas 7040 880803.161256 games attack ldr 79 880803.16145 ts88720a doc 2343 880804.152339 (c) 1988 by Mark Wahl & LogOn/S V BBS(408) 745-0880. May be fre

25. "E" t" 3#5"-" games_attack bin 5000 880803.161 ely copied for non-commercial
#37
MKpNAC.-IC-IprvAzNB, B4aai-: C: #10 use. For commercial use, conta

ct author ..

1988 Aug 08 15:54:24 flp1_sc8806t7_lis

880808.1432;; 371 Lines;; (S)LIX;; (C)ontacts;; Filename:: sc8806a7 (sf88) (2 Pages);;

SLIX Contacts 8807 (18)::

880730/TCW_U6_TS_SIG meeting at Stanford ... Dick Delp gave a presentation on 'Arbitrary Precision
Arithmatic' and distributed an

MS-DOS 360K disk (msdisk3 lis, 65 files) containing the C Source Code for a program (MIRACL) to work with Arbitrary \$ 880705/Package from Time Precision Arithmatic..

880728.1430-.1444/Call from Randy Baker;; (415)594-0115.. Randy is looking for a 'consultant' to help him with some TS1000 and Apple Laserwriter/ Postscript' projects ..

We suggested posting a 'help wanted' notice on the LogOn

We also suggested contacting Mark Wahl (Laserwriter/ Postscript) and Mike Furman (TS1000) via the LogOn Sunnyvale BBS at (408)745-0880..

Randy reports he got some response to his previous requests for help in TIMELINEI/ SincLink. He also promised to send the TS1000 XMDDEM terminal program instructions and a description of his TS1000 and Laserwriter projects..

880727/GUTS/SV meeting, attendees (10):: Joel Fitch,, attenders invision in the stanley Bosner;; (201679-2321;; 5 Everly St.;; Did Bridge;; NJ; 08857, Bill Miller, Mark Wahl, Carl Rink, Mike Furman and his Dad, loff Jerry Breenlee, Don Jeff, Terry Greenlee, Don Elliott, and Steve Michols. Stanley was visiting friends in the area and learned about our meeting from the San Jose Mercury News. He has a TS1000, TS206B, and a DL with 5.25in 720K Drives and 640K RAM.. Joel Fitch had the keyboard fail on his TS1000. We were able to provide him with a TS1000 Schematic from the TIMELINE? Notebook ..

Terry Greenlee demoed a 'DanCad' 'Goblet' on his Toshiba 1100+. He is trying to make it as fast as the one in 'View-3D'... Carl Rink reported on his trip to Europe where he saw mostly 'Amstrad' Computers in shops

for sale ..

Don Elliott still hasn't received his Amstrad portable back that he sent back under warrantee for repair.. Steve Nichols reported on the C64/128 Compiler he is

writing. Mike and Mark weren't able to transfer files between the

Griffin:: (415)494-0460:: 'Lab 408-745-0880.. 40' Function Modules (for PC or Bob Drrfelt demonstrated the Apple II):: *** Signal Acquisition.. *** Four Axis Stepper Driver.. 111 Smart Two Axis Motor Controller. ### Automated Milling Machine.. ### Automation Software... Available from:: Computer Continuum:: (415)755-1978; BBS(415)755-1524 Evenings & Weekends:: 75 Southgate Avenue, Suite 6; Daly City;; CA;; 94015 ...

Designs Magazine;; (503)824-2658;; Contains(25):: ** NOTICE OF TIMEX SINCLAIR NDRTHWEST MINI-FAIR 880806-7, for information contact:: ### Cosmopolitan Hotel (reservations);; (503)235-8433...

111 Rod Gowan; (503)655-7484 Mon. - Sat. after 12:00 Noon.. ### BBS (503)656-8072, 8,1,N. ### Tim Woods;; (503)824-2658.

880702/TCW_UG TS SIG Meeting...

\$ 880702/Letter from Brian Boatright;; (ACD)TEL-NUMB?;; 504 Eley Road;; Eglin AFB;; FL;; 32542.. Brian found out about us from Computer Shopper. He says he recently purchased a TS1000 and is interested in information about the TS1000 our User Group might have .. Brian::

First of all, we must apologize for taking so long to answer your letter. As you can see trom the attached TIMELINEZ/ Sinclink 8801-6, quite a few folks are still interested in the TS1000. Most of the TS1000 information seems to be in TIMELINET/ Sinclink issues from 1982 to 1986. These are available for \$1 each. You may wish to order some of them. The 2. GNU's Who.. 8412 issue has an index to the 3. What is the 8307 to 8411 newsletters. You may wish to order it first. We

880719.0831;; sc8807;; END..

880705.0928;; 3744 WORDS:: (S)LIX;; (C)ontacts;; Filename:: sc8806 (ta88527a) (858 Lines);;

SLIX Contacts 8806 (30)::

\$ 880630/Postcard from Joan Kealy ... Joan says she is 'hitting the road' on 880630. She has cousins in Santa Rosa, so will be passing thru our area. She plans to stop and try to attend our meeting(s). She says she has never been to a TS User Group Meeting. We hope she

FDD-3000 he got to complete his documentation of the TS2068 Timex Portugal / Zebra Disk Terry Greenlee and Mark Wahl

demonstrated redirecting the I/O of an MS-DDS machine (Osborne 3) to the Serial Port of a QL to use the QL Display instead of the Osborne LCD (an \$89 RGB adapter for MS-DOS). # 880628/Catalog Sheet, CDK-52, Controller Design Kit ... \$259; The Claytonic Corp.; Overton Clayborne; 707-554-9903; Chief Cook & Bottle Washer; P.O. Box 7293; Vallejo; CA; 94590;; USA..

880628.1202/Note to Tim Swenson.. Tim: We don't have any dues record for you. If you could afford to pay dues, it would help the group. If you can't, don't worry about it, the articles you contributed will probably mean you will get many future issues of TIMELINEZ/ SincLink on an exchange basis. Thanks for the articles! Keep them coming! Would it be usefull for us to try to send the newsletter to you as a QUILL file on QL Micrdrive Cartridge which you could send back with articles (in addition to the paper newsletter)?..

880627/Catalog sheet from A+ Computer Response;; 603-847-3373.. QL System ... \$89..

\$ 880627/6NU's Bulletin 8806, From Mark Wahl From USENIX;; Free Software Foundation;; c/o ?;; 617-876-3296, Internet?; gnuaprep.ai.mit.edu;; -;; 675 Massachusetts Avenue;; Cambridge;; MA;; 02139;; USA... Page::

3. What is the Free Software Foundation? ..

4. What is Copyleft?.. look forward to having you as a 4. Open Software Foundation..

5. GNU's Flashes 880611.. 6. GNU Wish List .. 7. Special Report: Apple's New Look and Feel..

8. GNU in Japan.. 9. GNU Project Status Report.. 14. How To Get GNU Software.. 15. GNU Software Available Now.. 18. Thank SNUs.. 19. GNU Order Form...

880625/The Computer Workshop Timex Sinclair SIG meeting at Stanford .. Claus Wiebe demoed an Amiga

program to move the Amiga Operating System (called Workbench) to a RAM Disk..

Subscriptions are \$15 U.S. funds. Please make checks or money orders out to: SincLink; and mail to:: TIMELINE2/ Sinclink;; 6675 Clifford Drive;; Cupertino;; CA;; 95014-4530. Thanks for your interest, hope we can add you to our information exchange! ...

Santos;; 408-943-6870:; 404 E. Plumeria Dr.;; San Jose;; CA;; 95134 ... Toe found out about us from Computer Currents, He works at Radius and inquired about the Cambridge Computer 188. He already has a portable Mac. Toshiba 1100+, and Tandy 100 (he's a portable computer person). He is looking for a U.S. source for the Z88. We

880517.1245/Call from Tom

suggested Sharp's at 804-746-1664.. Tom: Hope you can attend one of our meetings as described in the attached TIMELINEZ/ Sinclink 8801-6. I have also attached a copy of a 188 review from Computer Currents 880517-30 page 31...

\$ 880616/Visit by Andy Hradesky.. Andy delivered several items for TIMELINEZ/SincLink records, including a postcard from Joan Kealy reporting she is storing most of her computer gear and 'hitting the road' in a travel

trailer and plans to attend the upcoming IS Fests:

** 880806-7;; Portland. OR;
Cosmopolitan Hotel;; Contact::
RM6 Enterprises, 503-655-7484...

** 880826-27;; Lakewood, OH;

** Perk Center for the Atti... 'Beck Center for the Arts';; Contact:: James G. DuPuy, 216-661-4105.. Joan: Hope the attached TS8801-6 gets to you before you leave. Hope you have time to spend a few days at 6675 Clifford Drive. We have attached a map.

Good luck in your travels!!.. # 880615/TSEBZUG meeting, attendees (7):: Warren Tucker, Bill Miller, Mark Wahl, Fred James, Alvin Lam, John Ezike, Kevin Zimmerman.. Thanks to Warren Tucker for renewing his subscription and for his additional \$5 donation. Warren also returned TS2068 DATAFILE to the software library the couldn't get it to load). He would also like information on how to 'WD-40' his QL keyboard ..

880611/TCW U6;; Carl Linden reports on 'Prodigy', an information service which is a joint venture of IBM & Sears, available for IBM PC, IBM compatibles, or Apple II.. Free for 3 months as an introduction. Call 800-759-8000 FROM THE MARCH '88 QZX N/L IN NEW MEXICO.

BITS AND BYTES

115 Here is a note about the Z88 CPU used in the T/S 1888. The original Z88 had 8 pull-up resistors, R38 - R42 going to pins 7,8,9,18,12,13,14,15. All were 18K. Someone thought it needed them. But the Z88A and Z88B do not and they can cause trouble. The suggestion is to get rid of them. The Zilog manual makes no mention of any being required.

116 A tip from G4NWB through SARUG in Great Britain was written for the Spectrum but will probably apply to the T/S 2068 too. While transmitting RRTY on a TS438 it was noticed that the mic gain control was getting very hot. It turned out that there is an intergrated mic amplifier immediately after the gain control and it was getting cooked. The problem was solved by inserting a 2.7 K ohm resistor in the live side of the input lead from the Spectrum and 50 ohms in the ground connection. That is, both resistors in the lead from Spectrum mic socket to the mic input plug on the rig. The output from the Spectrum can peak to 3 volts although the rig is only expecting a few millivolts at the microphone input. Other rigs may have similar circuitry so it might be well for users to look their circuit diagram before transmitting. These remarks probably apply equally to CW or SSTV too.

117 A bug in the ROM of the T/S 2068 causes the INTEGER function for (-65536) to give the incorrect result of -1. For other cases where the result should be -65536, it gives -1E-38. Because the bug is in the ROM, there is no correction.

118 Monitor tips for the QL. The NEC Multisync works well and has magnificent color (also very expensive). The MGA Mitsubishi TV/RGB monitor works without any sync problems. It does have overscan on the F! mode but works ok on the F2 (TV) mode.

119 The break key on the T/S 2068 does not always work when a program goofs up. Sometimes, if you put any audio into the cassett port and then hit the break key, the K cursor will appear.

FROM THE FEB. '88 PLCTTER N/L OF CLACKAMAS COUNTY.

STRING\$

STRING\$ is a BASIC command used by some BASIC languages and is not the same as STR\$. Knowing its meaning is necessary for SINCLAIR BASIC replacement.

STRINg\$ is used to create strings made up of the same character in graphics, as for borders. You define the character and the desired number of repeats.

SINCLAIR BASIC replacement for 10 B\$=STRING\$(32,"-") is:

100 LET T\$="": FOR N= TO 32: LET T\$= T\$+"-": NEXT N: LET B\$=T\$.

FROM THE JAN/FEB '88 DETROIT AREA T/S N/L.

DISK DRIVE TIP

The Zebra & JLD disk drive both use the Western Digital WD 1770 controller chip. This is a great chip but hard to find. It's recommended you get a spore; since this is the brain of your disk drive.

JAMECO sells it for \$11.95

Urite: JAMECO 1355 Shoreway Road Belmont, CA 94002



Berkeley, CA 94703 (415) 843-5507

PRESIDENT: John Ezike Co-Editor: John Ezike

EBZUG meets the FOURTH Wednesday of each month at:

WEST BRANCH BERKELEY PUBLIC LIBRARY at the corner of University and San Pablo. Meetings start at 7:30pm. Bring Equipment and power strips.

>>>>> UPCONING MEETINGS

August 24th, 1988 September 28th, 1988 October 26th, 1988



PENINSULA USER GROUP - P.U.G. 311 Michelle Lane Daly City, CA 94015 (415) 878-1773

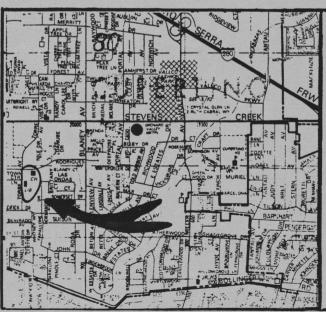
PRESIDENT: George Mockridge Co-Editor: George Mockridge

PUG meets the third Sunday of each month at:

PENINSULA HOSPITAL 1783 EL Camino Real Burlingame, CA

Meeting starts at 1:00pm on the lower level. Use north entrance. Bring equipment and extension cords if possible.

>>>>> UPCONING MERTINGS < < < < < August 21st, 1988
September 18th, 1988
October 16th, 1988



GROUPS USING TIMEX/sinclair of SILICON VALLEY - G.U.T.S/S.V 6675 Clifford Drive Cupertino, CA 95014-4530 (408) 253-3175

PRESIDENT: Bill Miller SincLink Editor: Bill Miller

GUTS/SV meets the last Wednesday of each month at:

Meetings start at 7:00pm. Bring your equipment down access ramp leading to bottom of circular building. Don't forget strips and extenssion cords.

Cupertino Library Community Room 10400 Torre Avenue Cupertino, CA 95014

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For User Groups (even small onesthere is nothing wrong with a one person user Group that puts out it's newsletter on a T5-2040), we would prefer to exchange newsletters. TIME-LIMES will mail one for each one

Make checks for TIMELINEZ payable (VS funds) to:

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Bat issues of TIMELIMEZ are available. Contact bill Miller at: Sincalink; 6675 Clifford brive; Cupertino, CA; 95014. PASE library is available at all club meetings - contact your editor for futher info.

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